

MeiLysProAsnIleIlePheValLeuSerLeuLeuLeuIleLeuGluLysGlnAlaAla 1: ValMetGlyGlnLysGlyGlySerLysGlyArgLeuProSerGluPheSerGlnPhePro -21: HisGlyGlnLysGlyGlnHisTyrSerGlyGlnLysGlyLysGlnGlnThrGluSerLys -41: GlySerPheSerIleGlnTyrThrTyrHisValAspAlaAsnAspHisAspGlnSerArg -61: LysSerGlnGlnTyrAspLeuAsnAlaLeuHisLysThrThrLysSerGlnArgHisLeu -81:  $Gly Gly Ser Gln Gln Leu Leu His Asn Lys Gln Glu Gly Arg Asp His Asp Lys Ser Lys \\ -$ 101: GlyHisPheHisArgValVallleHisHisLysGlyGlyLysAlaHisArgGlyThrGln -121: AsnProSerGlnAspGlnGlyAsnSerProSerGlyLysGlyIleSerSerGlnTyr|Ser -141: 161: AsnThrGluGluArgLeuTrpValHisGlyLeuSerLysGluGlnThrSerValSerGly -AlaGlnLysGlyArgLysGlnGlyGlySerGlnSerSerTyrValLeuGlnThrGluGlu -181: 201: LeuValAlaAsnLysGlnGlnArgGluThrLysAsnSerHisGlnAsnLysGlyHisTyr -221: GlnAsnValValGluValArgGluGluHisSerSerLysValGlnThrSerLeuCysPro -241: AlaHisGlnAspLysLeuGlnHisGlySerLysAspIlePheSerThrGlnAspGluLeu -

## Figure 1a

261:	LeuValTyr Asn Lys Asn Gln His Gln Thr Lys Asn Leu Asn Gln Asp Gln Gln His Gly when the support of the sup
281:	CS#3 ArgLysAlaAsnLysIleSerTyrGln SerSerSerThrGluGluArgArgLeuHisTyr -
301:	CS#4 GlyGluAsnGlyValGlnLysAspValSerGlnSerSerIleTyrSer GlnThrGluGlu -
321:	LysAlaGlnGlyLysSerGlnLysGlnIleThrlleProSerGlnGluGlnGluHisSer -
341:	CS#1 GlnLysAlaAsnLysIleSerTyrGln SerSerSerThrGluGluArgArgLeuHisTyr -
361:	CS#2 GlyGluAsnGlyValGinLysAspValSerGlnArgSerIleTyrSer GlnThrGluLys -
381:	lem:lem:lem:lem:lem:lem:lem:lem:lem:lem:
401:	GluAsnAlaLysGlyGluSerGlyGlnSerThrAsnArgGluGlnAspLeuLeuSerHis -
421:	GluGlnLysGlyArgHisGlnHisGlySerHisGlyGlyLeuAsplleValllelleGlu -
<b>4</b> 41:	GlnGluAspAspSerAspArgHisLeuAlaGlnHisLeuAsnAsnAspArgAsnProLeu
461:	PheThr -

## Figure 1b

## PERCENT PEPTIDE HYDROLYSIS

	TIME OF INCUBATION (HOURS)					
PEPTIDE	0.5	1	2	3	4	20
1. SYQSSSTE	ND	0	ND	0	ND	0
2. ISYQSSSTE	ND	0	ND	0	ND	0
3. KISYQSSSTE	ND	10	ND	<b>3</b> 0	ND	90
4. NKISYQSSSTE	ND	30	ND	70	ND	100
5. NKISYQSSST	ND	20	30	ND	ND	100
6. ANKISYQSSSTE	15	25	ND	ND	80	100
7. ANKISYQSSS	4	6	16	30	45	ND
8. NKISYQSSS	2	6	<b>2</b> 2	44	55	ND
9. ANKISYQSS	1	ND	12	ND	39	ND
10 GRKANKISYQS- SSTEERRLHYGEN G	20	50	ND	ND	90	100

ND = not determined

The single letter code for amino acids is used: A=Ala, E=Glu, G=Gly, H=His, I=Ile, K=Lys, L=Leu, N=Asn, Q=Gln, R=Arg, S=Ser, T=Thr, Y=Tyr.

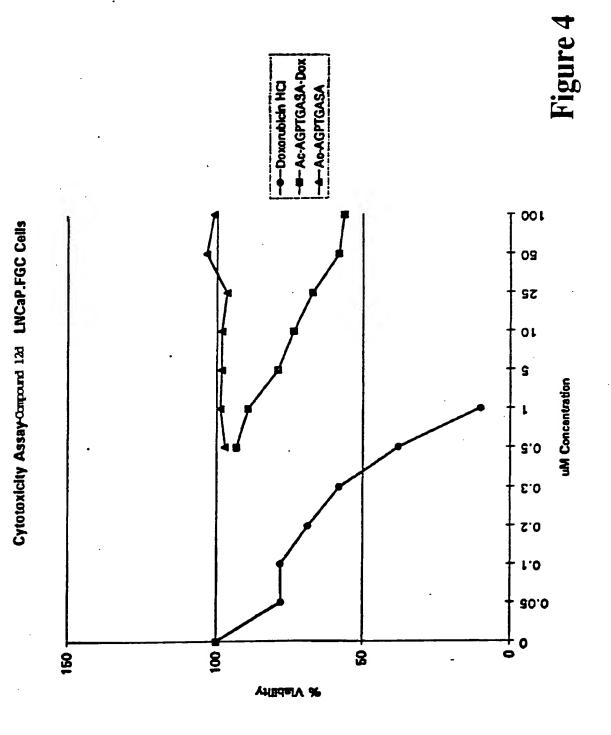
Figure 2

			468161
<u>Peptide</u>	SEO.ID.NO.	& Peptide t eaved at 4 Hours	400161
		by York PSA	
· · · · · · · · · · · · · · · · · · ·			_  . "
Semenogelin (463 aa)		100 (30 min)	4
GRKANKISYQ-SSSTEERRLHYGENG	6	100 (2 hrs)	4
SQKANKISYQ-SSSTEERRLHYGENG	67	100 (3 hrs)	4
ANKISYQ-SSSTE	11	98	
ISYQ-SSST	68	0	_
NKISYQ-SSST	10	62	_
NKISYQ-SSSTE	3	90	4
KISYQ-SSSTE	9	4,8	_
SYQ-SSSTE	7	0/(3 hrs)	
ISYQ-SSSTE	8	0	_
NKISYQ-SSS	17	55	
ANKISYQ-SSS	18	45	_
ANKISYQ-SS	69	39	_
ANKISYQ-SSSTE-amide	11/	43	_
Ac-ANK SYQ-SSSTL	70/	57	
	$\sim$		
Ac-ANKISYQ-SSTE-amide	11	40	_
Ac-ANKISYQ-SSS NL-amide	70	46	_
Ac-ANGISYQ-SSSTE amide	71/	0	
Ac-ANPISYQ-SSSTE-am de	1/2	0	
Ac-ANKISYQ-SASTE-amade	73	66	_
Ac-ANKISYQ-SSKTE-amade	74	80	_}
Ac-ANKISYQ-SSTE-amide	75	44	_
Ac-ANKI (dS) YQ-SSSTE-amide	76	9	
Ac-ANK(dI)SYQ-SSSTE amide	77	0	
Ac-ANKISYQ-SSQTE-amide	78	55	
Ac-ANKISYQ-SAKTE-amide	79	80	
Ac-AN(dK) ISYQ-SSSTE-amide	80	3	
Ac-ANKISYQ-STE-amide	<b>\</b> \ <b>\ \ \ \ \ \ \ \ \</b>	28	
Ac-ANKIYQ-SSTE-andde	82	0	
Ac-ANKSYQ-SSTE-amide	83	10	
Ac-ANKASYQ-SASTZ-amide	84	98	
Ac-ANEISYQ-SASTE-amide	85	. 10	
Ac-NKISYQ-SS-amide	16	30	1
Ac-KISYQ-SS-amide	86	15	7
Ac-SYQ-SSTE-amide	87	65	]
Ac-SYØ-SSTL-acid	88	83	]
Ac-AS/Q-SSTE-amide	89	68	7
Ac-EISYQ-SSSTE-amide	90	0	]
Ac-AMEISYQ-SSSTE-amide	91	0	1
Ac-ANKISYY-SSSTE-amide	92	73	1
Ag-ANKISYY-SASTE-amide	93	91	]

Figure 3a

Peptide	L-Number	% Peptide Cleaved at 4 Hours
		by York PSA
Ac-ASYQ-SSL-acid	94	71
Aç-ANSYQ-SSSTE-amide	95	28
Ad-ASYQ-SSSTE-amide	96	64/
Ac SYQ-SSSTE-amide	97	\$0
Ac-ANKASYQ-SASC-amide	98	/ 78
Ac-Q\SSTE-amide	99	/ 0
Ac-YQ-SSTE-amide	100	0
Ac-SQ-SSTE-amide	101	0
Ac-ANKISQ-SSTE-amide	102	0
Ac-AN(ORN)ISYQ-SETE-amide	103	/ 34
Ac-S(3PAL)Q-SSTE amide	104	4
Ac-S(3,4-Cl2F)Q-SSTE-amide	105	6
Ac-SKQ-SSTE-amida	106	0
Ac-SYQ-SSTL-acid	88	81
Ac-SYQ-SSSL-acid	107	98
(e-ACA)-YQ-SSSL-amide	108	0
ANK(N-Me-I)SYQ-SSTE-amide	109	0
SYQ-SSTE-amide	110/	0
H0(CH2)2C0-YQ-SSTE-amide	11/1	0
Ac-SYK-SSTE-amide	1/12	5
Ac-SYY-SSTE-amide	113	93
Ac-SYQ-SSL-NHNH2	114	32
Ac-SYQ-SSL-acid	115	72
DAP-YQ-SSSL-amide /	116	0

Figure 3b



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Doxokubicin-congener	SEO.ID.NO.	§ Peptide Cleaved at 4 Hours
		by/York PSA
Ac-ANKISYQ-SST-DOX (3')	117	20(1 hr) no sample left
Ac-ANKISYQ-SSSTL-DOX (3')	70	87
Ac-ANKASYQ-SASTL-DOX (3')	118	/ NA
Ac-ANKASYQ-SASL-DOX (3')	119	100 (3 hr)
Ac-ANKASYQ-SSSL-DOX (3')	120	100 (3 hrs )
Ac-ANKASYQ-SSL-DOX (3')	121	91
Ac-SYQ-SST(dL)-DOX (3')	122	17
Ac-SYQ-SSSL-DOX (3 V	107	95 (PARTIALLY SOLUBLE)
Ac-ANKASYA-SSSL-DOX (3/)	123	0
Ac-KYQ-SSSL-DOX (3')	(T24/	98 (PARTIALLY SOLUBLE)
Ac-SYQ-SSKL-DOX (3')	12/5\	88
Ac-SYQ-SSK(dL)-DOX (3')	126	87

Figure 5

Table 6



Doxorubicin-congener	SEO.ID.NO	LNCap Cell Kill, EC50 ( M)
Ac-ANKİŞYQ-SSST-DOX (3')	117	> 100
Ac-ANKISYQ-SSSTL-DOX (3')	70	8.4
Ac-ANKASYQ SASTL-DOX (3')	118	/ 31
Ac-ANKASYQ-SASL-DOX (3')	119	16 (DuPRO > 100)
Ac-ANKASYQ-SSSL-DOX (3')	120	/ 15
Ac-ANKASYQ-SSL-QOX (3')	121	6.5 (DuPRO = 117)
Ac-SYQ-SSSL-DOX (3')	107	20 (DuPRO>100) (PARTIALLY SOLUBLE)
Ac-ANKASYA-SSSL-DOX (3')	123	> 100
Ac-KYQ-SSSL-DOX (3')	124	6.5 (DuPRO > 100)
Ac-SYQ-SSKL-DOX (3')	125	11.8 (DuPRO > 100)
Ac-SYQ-SSK(dL)-DOX (3')	126	>100 (DuPRO >100)
Ac-hRYQ-SSSL-DOX (3')	145	6.4 (DuPRO > 100)
Ac-KYQ-SSS(Nle)-DOX (3')	146/	4.4 (DuPRO >100)

